

**Claims:** We claim:

- Sub B'**
1. A method of compression of graphic images which make up a video stream, comprising the steps of:
    - (a) sub-sampling pixels from an image selected from said graphic images;
    - (b) selecting a code based on a number of bits from each pixel selected from said pixels;
    - (c) run-length encoding repeated instances of said code;
    - (d) repeating steps (b) and (c) until each said pixel is encoded in an encoded data buffer; and
    - (e) streaming said buffer which represents said graphic images.
  2. The method of claim 1 wherein the rate of sub-sampling frames is greater than or equal to 15.
  3. The method of claim 1 wherein image dimensions are less than or equal to 320 by 240.
  4. The method of claim 1 wherein said number of bits is five and said code is determined by extracting the five most significant bits from each pixel.
  5. The method of claim 1 wherein said number of bits is five and said code is obtained from an encode table.
  - Sub A'** 6. An encoded video signal comprising a series of said encoded data buffers.
  7. A storage medium in which the encoded video signal as claimed in claim 6 is stored.
  8. A method of decompressing an encoded video signal, comprising the steps of:
    - (a) reading a stream of run-length encoded codes;
    - (b) determining a series of pixels based on the values and run-lengths of said codes;
    - (c) combining said pixels into an image; and
    - (d) displaying a series of said images.

9. The method of claim 8 wherein the display frame rate is greater than or equal to 15.
10. The method of claim 8 wherein the width and the height of said image are less than or equal to 320 by 240, respectively.
11. The method of claim 8 wherein said codes are five bits in length and said pixel's values are determined by using the least significant bits of said codes as the five most significant bits of each pixel.
12. The method of claim 8 wherein each of said pixel values are obtained from a decode table, whereby said image is an enhanced representation of the original image.
13. The method of claim 5 wherein the lines of said encode table are randomly ordered forming an encryption table so that the direct correlation between the original values and their representative codes are encrypted.
14. The method of claim 12 wherein the lines of the decode table are ordered in a sequence matching said encryption table so that the correct final pixel values are displayed.
15. A machine for compressing of a plurality of video frames which make up a video signal, comprising
  - (a) a video digitizer configured to digitizing a frame from said video frames;
  - (b) a video memory which is able to receive a plurality of pixels from said video digitizer;
  - (c) run-length encoding circuit for counting repeated instances of a pixel value when scanning said plurality of pixels and output a series of run-lengths and code values as encoded data;
  - (d) a memory which is able to store said encoded data;
  - (e) an input/output device.
16. The machine of claim 15 wherein said run-length encoding circuit performs a table lookup to translate said pixel values into encrypted enhancement codes.

17. The machine of claim 15 wherein said input/output device is a storage medium.
18. The machine of claim 15 wherein said input/output device is a communications transmission channel.
19. A machine for decompressing an stream of encoded data that represents a video signal, comprising:
  - (a) an input/output device for reading said stream of encoded data;
  - (b) a run-length decoding circuit which can decode the encoded data and output a stream of pixel values; and
  - (c) a memory that is able to store an image comprising said stream of pixel values that can be displayed as frames of a video sequence.
20. The machine of claim 19 wherein said run-length decoding circuit performs a decode table lookup.

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